	Application No.	Applicant(s)	
Notice of Allewahility	10/644,825	YEH, MING HAU	
Notice of Allowability	Examiner	Art Unit)
	Shih-Chao Chen	2821	m
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	application. If not include on will be mailed in due o	ed course, THIS
1. This communication is responsive to the application filed o	n August 21, 2003.		
2. The allowed claim(s) is/are <u>1-6</u> .			
3. \boxtimes The drawings filed on <u>21 August 2003</u> are accepted by the	Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	be been received. be been received in Application No.	·	ion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a repl IENT of this application.	y complying with the req	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINE es reason(s) why the oath or decla	R'S AMENDMENT or No ration is deficient.	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) Including changes required by the Notice of Draftspers		O-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	•	•	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the draw he header according to 37 CFR 1.12	vings in the front (not the 1(d).	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGI	. must be submitted. N CAL MATERIAL.	lote the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	6. ☐ Interview Summar Paper No./Mail D 8), 7. ☑ Examiner's Amen	dment/Comment	
of Biological Material	9.	nent of Reasons for Allow	

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification, on page 4, lines 8-9, "FIG. 4 is an illustrative diagram of the dipole antenna according to a preferred embodiment of the present invention" is changed to --FIG. 4 is an illustrative diagram of a traditional dipole antenna.--.

In claim 6, line 5, "dual-frequency mid/low resonance wavelength" is changed to -dual-frequency high/low resonance wavelength--.

Allowable Subject Matter

- 2. Claims 1-6 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-6 is the inclusion of the limitation of two radiators, of which one being extended from one end of the printed wire at a position other than the corresponding metal grounding surface, and being bent into approximately 90 degrees after being extended to a predetermined length in the direction away from the metal grounding surface to form a radiator of the predetermined length, and then extended along the direction parallel to the radiator and bent into approximately 90 degrees and being extended to another predetermined

Art Unit: 2821

length along the direction parallel to the radiator and bent to approximately 90 degrees and then being extended to a corresponding position on another end of the printed wire to define another radiator. It is this limitation found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Wong et al. (U.S. Patent No. 6,747,600) teaches the dual-band monopole antenna comprising: a microwave substrate with a first surface and a second surface. The first surface has a feeding metallic element, which is a microstrip line for signal transmission. A first horizontal radiating metallic line is printed on the first surface. A second horizontal radiating metallic line is printed on the first surface and below the first horizontal radiating metallic line. A vertical radiating metallic line is printed on the first surface and is in perpendicular to the first horizontal radiating metallic line and the second horizontal radiating metallic line. A feeding point is disposed on the vertical radiating metallic line for connecting the feeding metallic element to the vertical radiating metallic line so as to transmit signals. And a ground plane is printed on the second surface. However, Wong et al. does not disclose or suggest two radiators, of which one being extended from one end of the printed wire at a position other than the corresponding metal grounding surface, and being bent into approximately 90 degrees after being extended to a predetermined length in the direction away from the metal grounding surface to form a radiator of the predetermined length, and then extended along the direction parallel to the radiator and bent into approximately 90 degrees and being extended to another predetermined length along the direction parallel to the

Art Unit: 2821

radiator and bent to approximately 90 degrees and then being extended to a corresponding position on another end of the printed wire to define another radiator.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shih-Chao Chen

Application/Control Number: 10/644,825

Art Unit: 2821

Primary Examiner Art Unit 2821

SXC October 21, 2004 Page 5